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TRANSMITTAL FORM (to be used for all correspondence after initial filing)		Application Number	10/698,824
		Filing Date	October 30, 2003
		First Named Inventor	Bob B. BUCHANAN
		Art Unit	Not Yet Assigned
		Examiner Name	Not Yet Assigned
Total Number of Pages in This Submission	9	Attorney Docket Number	416272005602

ENCLOSURES (Check all that apply)		
<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment/Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Information Disclosure Statement w/ Form PTO-1449 (8 pages) <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/ Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____	<input type="checkbox"/> After Allowance Communication to Group <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): 1. Return Receipt Postcard
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SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT	
Firm or Individual name	MORRISON & FOERSTER LLP Otis Littlefield - 48,751 (Customer No. 20872)
Signature	
Date	December 4, 2003

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PATENT
Docket No. 416272005602

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Leah M. Kjellén

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the application of:

Bob B. BUCHANAN et al.

Serial No.: 10/698,824

Filing Date: October 30, 2003

For: STABILIZATION OF
HYPOALLERGENIC,
HYPERDIGESTIBLE PREVIOUSLY
REDUCED PROTEINS

Examiner: Not Yet Assigned

Group Art Unit: Not Yet Assigned

**INFORMATION DISCLOSURE
STATEMENT UNDER 37 C.F.R. § 1.97 & 1.98**

Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Dear Sir:

Pursuant to 37 C.F.R. § 1.97 and § 1.98, Applicants submit for consideration in the above-identified application the documents listed on the attached Form PTO-1449. Copies of the documents were previously submitted in an Information Disclosure Statement and/or Office Action, directed to the related application Serial Number 09/779,375 filed February 7, 2001, and, accordingly, copies are not included herewith. This protocol conforms with 37 C.F.R. §1.98(d) and M.P.E.P. 609(A)(2). The Examiner is requested to make these documents of record in the application.

This Information Disclosure Statement is submitted:

- ☒ Within three months of the application filing date or before mailing of a first Office Action on the merits; accordingly, no fee or separate requirements are required.
- ☐ After receipt of a first Office Action on the merits but before mailing of a final Office Action or Notice of Allowance.
 - ☐ A fee is required. A check in the amount of * is enclosed.
 - ☐ A fee is required. Accordingly, a Fee Transmittal form (PTO/SB/17) is attached to this submission in duplicate.
 - ☐ A Certification under 37 C.F.R. § 1.97(e) is provided below; accordingly, no fee is believed to be due.
- ☐ After mailing of a final Office Action or Notice of Allowance, but before payment of the issue fee.
 - ☐ A Certification under 37 C.F.R. § 1.97(e) is provided below and a check in the amount of * is enclosed.
 - ☐ A Certification under 37 C.F.R. § 1.97(e) is provided below and a Fee Transmittal form (PTO/SB/17) is attached to this submission in duplicate.

Applicants would appreciate the Examiner initialing and returning the Form PTO-1449, indicating that the information has been considered and made of record herein.


The information contained in this Information Disclosure Statement under 37 C.F.R. § 1.97 is not to be construed as a representation that: (i) a complete search has been made; (ii) additional information material to the examination of this application does not exist; (iii) the information, protocols, results and the like reported by third parties are accurate or enabling; or (iv) the above information constitutes prior art to the subject invention.

In the unlikely event that the transmittal letter is separated from this document and the Patent Office determines that an extension and/or other relief is required, applicants petition for any required relief including extensions of time and authorizes the Commissioner to charge the

cost of such petitions and/or other fees due in connection with the filing of this document to Deposit Account No. 03-1952 referencing 416272005602. However, the Commissioner is not authorized to charge the cost of the issue fee to the Deposit Account.

Dated: December 4, 2003

Respectfully submitted,

By: 
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Form PTO-1449 INFORMATION DISCLOSURE CITATION IN AN APPLICATION (Use several sheets if necessary)	Docket Number 416272005602	Application Number 10/698,824
	Applicants Bob B. BUCHANAN et al.	
	Filing Date October 30, 2003	Group Art Unit Not Yet Assigned
	Mailing Date December 4, 2003	

U.S. PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Name	Class	Subclass	Filing Date If Appropriate
	1.	Apr. 1974	3,803,326	Craig et al.			
	2.	Sep. 1983	4,405,648	Atsumi et al.			
	3.	Jul. 1991	5,028,419	Pigiet			

FOREIGN PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Country	Class	Subclass	Translation YES NO
	4.	Jul. 1975	1 400 972	Great Britain			
	5.	Jun. 1976	1 420 843	Great Britain			
	6.	May 1994	WO 96/12799	WIPO			

OTHER DOCUMENTS

(including author, title, Date, Pertinent Pages, Etc.)

Examiner Initials	Ref. No.	Title
	7.	Holmgren, A. (1979) "Reduction of disulfides by thioredoxin. Exceptional reactivity of insulin and suggested functions of thioredoxin in mechanism of hormone action" <i>J. Biological Chemistry</i> 254 (18): 9113-9119.
	8.	Schernthaner, G. (1993) "Immunogenicity and allergenic potential of animal and human insulins" <i>Diabetes care (Suppl 3)</i> : 155-165.
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	10.	Birk, "Proteinase Inhibitors from Plant Sources," <i>Method Enz.</i> , 45:695-739 (1976).
	11.	Birk, Y., "The Bowman-Birk Inhibitor," <i>Int. J. Peptide Protein Res.</i> 25:113-131 (1985).
	12.	Blomback et al. "Enzymic reduction of disulfide bonds in fibrinogen by the thioredoxin system. I identification of reduced bonds and studies on reoxidation process" <i>Thrombosis Research</i> 4(1):55-75 (1974).
	13.	Bodenstein-Lang, J. et al., "Animal and Plant Mitochondria Contain Specific Thioredoxins," <i>FEBS Lett.</i> , 258:22-26 (1989).

EXAMINER:

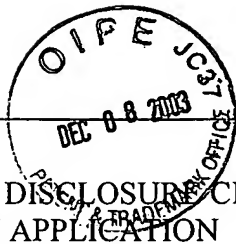
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14.	Buchanan et al., "Thioredoxin: A Multifunctional Regulatory Protein with a Bright Future in Technology and Medicine," Archives of Biochemistry and Biophysics, 314(2): 257-260, (1994).		
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17.	Bushuk, W., et al., "Wheat Cultivar Identification by Gliadin Electrophoregrams. I. Apparatus, Method and Nomenclature," Can. J. Plant Sci. 58:505-515 (1978).		
18.	Crawford et al., "Evidence for Function of the Ferredoxin/Thioredoxin System in the Reductive Activation of Target Enzymes of Isolated Intact Chloroplasts," Arch. Biochem. Biophys. 271(1):223-239 (1989).		
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20.	De la Motte-Guery, F. et al., "Mutation of a Negatively Charged Amino Acid in Thioredoxin Modifies its Reactivity with Chloroplastic Enzymes," Eur. J. Biochem. 196:287-294 (1991).		
21.	Decottignies, P. et al. (1988) "Primary Structure of the Light-dependent Regulatory Site of Corn NADP-Malate Dehydrogenase", The Journal of Biological Chemistry 263(24):11780-11785.		
22.	Droux, M. et al. (1987) "Ferredoxin-Thioredoxin Reductase, an Iron-Sulfur Enzyme Linking Light to Enzyme Regulation in Oxygenic Photosynthesis: Purification and Properties of the Enzyme from C.sub.3, C.sub.4, and Cyanobacterial Species", Archives of Bioche.		
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26.	Fickenschner, K., et al., "Purification and Properties of the Cytoplasmic Glucose-6-Phosphate Dehydrogenase from Pea Leaves," Arch. Biochem. Biophys. 247:393-402 (1986).		
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	28.	Frick et al., "Immunoglobulin E Antibodies to Pollens Augmented in Dogs by Virus Vaccines," Am. J. Vet. Res., 44(3):440-445 (1983).	
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45.	Morton, J.I. et al. (161), "Immunochemical Studies of Modified Ovomucoids," Arch. Biochem. Biophys. 93:661-665.		
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56.	Scheibe, R., et al., "Chloroplast Glucose-6-Phosphate Dehydrogenase: Km Shift upon Light Modulation and Reduction," Arch. Biochem. Biophys. 274:290-297 (1990).		
57.	Schernthaner, G. "Immunogenicity and allergenic potential of animal and human insulins" Diabetes care 16 (Suppl 3):155-65. Dec. 1993.		
58.	Schiavo, G. et al. (1990) "An Intact Interchain Disulfide Bond Is Required for the Neurotoxicity of Tetanus Toxin", Infection and Immunity 58(12):4136-4141.		
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60.	Suske, G., et al., "NADPH-Dependent Thioredoxin Reductase and a New Thioredoxin from Wheat," Z. Naturforsch. C., 34:214-221 (1979).		
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